

LENGTH OF DATA 02000  
LENGTH OF PRG 00241

		1	IDENT	INSTALL	
00001		3	X1	EQU	1
00002		4	X2	EQU	2
00003		5	X3	EQU	3
00002		7			
00006		8	MSLLFBN	EQU	02B
		9	MSLBLK	EQU	06B
00077		10	DEVMAX	EQU	778
01000		12			
04000		14	WPFB	EQU	1000B
10000		15			
00000		16	CORE	EQU	4000B
		17	CORE2	EQU	10000B
00000		18			
00015		19	IMPURE	EQU	0
		20			
		21			
		22	WC	EQU	15B
		23	*		BOOT USES THE CONTENTS OF THIS WORD FOR THE WORD COUNT IN AN I/O TRANSFER
		24	*		
		25			
		26	EXT	BOOT	
		27			
		28	EXT	TRANSFER	
00131 P		29			
00000 P		30	ENTRY	BLOCKS	
00147 P		31	ENTRY	BOOTOVER	
		32	ENTRY	BOOTOUT	
		33			
00000 14000237 P		34	BOOTOVER	NOP	EXIT
00001 00700205 P		35		RTJ	SHARE
00002 47200051 P		36		STI	SAVE THE TABLE ADDRESS
00003 00700163 P		37		RTJ	GET THE DISK TO COPY FROM
00004 20000236 P		38		LDA	ENTER THE CORE ADDRESS
00005 14104000		39		ENI	READ THE BLOCK IN
00006 00700230 P		40		RTJ	READ IN SECOND BLOCK
00007 14105000		41		ENI	
00010 20000236 P		42		LDA	
00011 15600001		43		INA	
00012 00700230 P		44		RTJ	
00013 14300076		45		ENI	
00014 54200051 P		46		LDI	LOAD THE TABLE ADDRESS
00015 000015 P		47	LOOP	EQU	SKIP IF THE INPUT PACK
00016 01000020 P		48	INPACK	ISE	
00017 01000033 P		49		UJP	DONT REWRITE THE INPUT PACK
00020 25200000		50		UJP	IS A DISK THERE
00021 03200033 P		51		LDAQ	JUMP IF NOT
00022 13000030		52		AZJ, GE	LOW BLOCK NUMBER TO (A)
00023 30000000 D00		53		SHAQ	
00024 40000236 P		54		ADA	ENTER THE CORE ADDRESS
00025 14104000		55		STA	WRITE THE BLOCK OUT
00026 00700233 P		56		ENI	WRITE OUT SECOND BLOCK
00027 14105000		57		RTJ	
00030 20000236 P		58		ENI	
00031 15600001		59		LDA	
00032 00700233 P		60		INA	
00033 15200002 P		61		RTJ	WRITE OUT SECOND BLOCK
00034 02700015 P		62	ENDLOOP	EQU	
		63		INI	ADVANCE TO THE NEXT UNIT
		64		IJO	LOOP THE PROPER NUMBER OF TIMES
00035 20000027 D00		65			
00036 14110000		66		LDA	GET THE LOCATION OF THE RGQVLIST
00037 00700230 P		67		ENI	ENTER THE BUFFER ADDRESS
00040 14200000		68		RTJ	
00041 14300777		69		ENI	SET THE MESSAGE POINTER
00042 20310000		70		ENI	LOCK AT THE WHOLE BLOCK
00043 03000064 P		71	DEVLOOP	EQU	
00044 53500000		72		LDA	JUMP IF NO DEVICE IS WANTED
00045 53540000		73		AZJ, EQ	DEVICE NUMBER TO X1
00046 05600100		74		TAI	TWO TIMES DEVICE NUMBER
00047 01000051 P		75		IAI	
		76		ASG	
		77		UJP	

00050	00000050 P	78	DEVPOINT	HLT	*	TRASH IN THE REQUIRED DEVICE LIST
00051	20100000 P	79		LDA	IMPURE,X1	IS THE DEVICE ON LINE
00052	03300064 P	80		AZJ,LT	DEVLOPND	JUMP IF IT IS
00053	20310000 P	81		LDA	CORE2,X3	GET THE DEVICE NUMBER AGAIN
00054	13077747	82		SHAQ	-24	
00055	51000240 P	83		DVA	010	
00056	42400474 P	00117 0	84	SACH	WHERELUN,X2	SAVE THE 10S DIGIT
00057	13000030 P	85		SHAQ	24	
00060	42400475 P	00117 1	86	SACH	WHERELUN+1,X2	SAVE THE UNIT DIGIT
00061	14600060 P	87		ENA	60B	
00062	42400476 P	00117 2	88	SACH	WHERELUN+2,X2	SAVE A BLANK
00063	15200003 P	89		INI	3,X2	
00064	02700042 P	90	DEVELOPND	IJD	DEVLOOP,X3	LOOP THRU THE WHOLE BLOCK
00065	14601000 P	91		ENA	WPF8	
00066	40000015 P	92		STA	WC	RESTORE BOOTS WORD COUNT
00067	05200001 P	93		ISG	1,X2	
00070	01400000 P	94		UJP,I	BOOTOVER	SKIP IF SOMETHING WAS MISSING
00071	14600077 P	95		ENA	778	
00072	42400474 P	00117 0	96	SACH	WHERELUN,X2	STORE SOME RETURNS
00073	42400475 P	00117 1	97	SACH	WHERELUN+1,X2	
00074	42400476 P	00117 2	98	SACH	WHERELUN+2,X2	
00075	77600400 P	99		PAUS	0400B	
00076	01000075 P	100		UJP	*-1	
00077	110000434 P	00107 0	101	ECHA	WHEREIS	
00100	53420023 P	102		TAM	23B	
00101	110000474 P	00117 0	103	ECHA	WHERELUN	SET THE FIRST CHARACTER ADDRESS
00102	53140000 P	104		AIA	X1	
00103	15600003 P	105		INA	3	
00104	53420033 P	106		TAM	33B	
00105	77760000 P	107		CIO		SET THE ENDING ADDRESS
00106	01400000 P	108		UJP,I	BOOTOVER	
00107	77663025 P	109				EXIT FROM THIS PART
	00474 P	110				
		111				
		112				
		113				
		114	WHEREIS	BCD,C	72,^WHERE ARE MASS STORAGE DEVICES	
		115	WHERELUN	EQU,C	WHEREIS+32	

00131	14000237	P	117	BLOCKS	NOP	EXIT	
00132	00700205	P	118		RTJ	SHARE	
00133	20200001		119		LDA	1,X2	LOAD THE LOW FILE BLOCK NUMBER
00134	14104000		120		ENI	CORE,X1	ON MS00
00135	00700230	P	121		RTJ	BOOTREAD	
00136	20004006		122		LDA	CORE+MSLBLK	
00137	17677777		123		ANA	777778	
00140	30004002		124		ADA	CORE+MSLLFBN	LOAD THE RELATIVE LOCATION
00141	14100000	000	125		ENI	SYMBOLS,X1	OF BLOCKS
00142	00700233	P	126		RTJ	BOOTWRIT	RELOCATE BLOCKS
00143	20000051	000	126+001		LDA	COMMBLK+2	ENTER THE FWA
00144	14101000	000	126+002		ENI	COMMANDS,X1	
00145	00700233	P	126+003		RTJ	BOOTWRIT	
00146	01400131	P	127		UJP,I	BLOCKS	WRITE OUT COMMAND BLOCK
							EXIT FROM THIS PART

00147	14000237	P	129	BOOTOUT	NOP	EXIT	
00150	00700205	P	130		RTJ	SHARE	SET UP
00151	00700163	P	131		RTJ	BOOTSHR	GET THE OUTPUT UNIT
00152	14177777	X	132		ENI	BOOT,X1	ENTER THE FWA
00153	20000238	P	133		LDA	ADDRESS	LOAD THE DISK ADDRESS
00154	00700233	P	134		RTJ	BOOTWRIT	WRITE OUT THE FIRST BLOCK
00155	14100152	X	135		ENI	BOOT,X1	
00156	15101000		136		INI	WPFB,X1	WRITE OUT THE SECOND BLOCK
00157	20000236	P	137		LDA	ADDRESS	
00158	15600001		138		INA	1	
00161	00700233	P	139		RTJ	BOOTWRIT	
00162	01400147	P	140		UJP,I	BOCTOUT	EXIT

00163	01000000	142	BOOTSHR	UJP	IMPURE
00164	20200000	143		LDA	0,X2
00165	17677077	144		ANA	77077B
00166	77700000	145		SLS	
00167	17677077	146		ANA	77077B
00170	14777077	147		ENQ	77077B
00171	14100176	148		ENI	2*DEVMAX,X1
00172	47200173 P	149		STI	*+1,X2
00173	06200000	150		MEQ	IMPURE,2
00174	00000174 P	151		HLT	*
00175	53100000	152		TIA	X1
00176	53640000	153		IAI	X2
00177	47200015 P	154		STI	INPACK,X2
00200	20200001	155		LDA	1,X2
00201	30000005 000	156		ADA	BOOTLOC+2
00202	40000236 P	157		STA	ADDRESS
00203	01000163 P	158		UJP	BOOTSHR

LOAD MSOO CONNECT CODE  
SAVE JUST CONNECT CODE  
WAIT FOR CHANGES

STORE TABLE ADDRESS

DEVICE NOT ON LINE  
TABLE POSITION TO A  
ABSOLUTE ADDRESS TO X2  
REMEMBER THE INPUT PACK  
LOAD LOW FILE BLOCK NUMBER  
RELOCATE TO BOOT

EXIT

00204	14200000	160	SHAREX2	ENI	IMPURE,X2	RESTORE X2
00205	01000000	161	SHARE	UJP	IMPURE	
00206	04000000	162	SHAREFLG	ISE	IMPURE,0	SKIP IF THE FIRST TIME
00207	01000204 P	163		UJP	SHAREX2	RESTORE X2 AND EXIT
00210	47200204 P	164		STI	SHAREX2,X2	SAVE INDEX TWO
00211	13077763	165		SHAQ	-12	
00212	17607777	166		ANA	7777B	
00213	44000231 P	167		SWA	ZREAD	SAVE THE READ ADDRESS
00214	13000014	168		SHAQ	12	
00215	17607777	169		ANA	7777B	
00216	44000234 P	170		SWA	ZWRITE	
00217	20200001	171		LDA	1,X2	LOAD THE ADDRESS OF THE LABEL BLO
00220	14100043	172		ENI	NUMRELOC,X1	
00221	34100011 D00	173		RAD	RELOC,X1	RELOCATE AT THE RELOCATABLE BLOCK
00222	02500223 P	174		IJD	*+1,X1	
00223	10500000	175		ISD	0,X1	
00224	02500221 P	176		IJD	*-3,X1	
00225	14600001	177		ENA	1	SET THE FLAG
00226	44000206 P	178		SWA	SHAREFLG	
00227	01000205 P	179		UJP	SHARE	EXIT
		180				
		181				
00230	01000000	182	BOOTREAD	UJP	IMPURE	
00231	00700000	183	ZREAD	RTJ	IMPURE	
00232	01000230 P	184		UJP	BOOTREAD	
		185				
		186				
00233	01000000	187	BOOTWRIT	UJP	IMPURE	
00234	00700000	188	ZWRITE	RTJ	IMPURE	
00235	01000233 P	189		UJP	BOOTWRIT	
		190				
00236	00000000	191	ADDRESS	VFD	A24/IMPURE	
		192				
		193				
00237	00003700	194	EXIT	HLT	3700B	
00240	00000012	195				
		196				
		197	D10	DEC	10	

00000 000 199  
 00000 000 200 SYMBOLS EQU \*  
 00000 21515121 201 VFD H48/ARRAY,A24/4  
 00003 22464663 202 BOOTLOC EQU VFD H48/BOOT,A24/1  
 00006 22212463 203 VFD H48/BADTRAX,A24/3  
 204  
 205  
 00011 000 206 RELOC EQU \* THE FOLLOWING BLOCKS NEED TO HAVE  
 207 \* BASE ADDED TO THEM  
 00011 21232322 208 VFD H48/ACCBLOCK,A24/IMPURE+10  
 00014 22212342 209 VFD H48/BACKLOG,A24/IMPURE+13  
 00017 31442127 210 VFD H48/IMAGEBLK,A24/IMPURE+14  
 00022 44676222 211 VFD H48/MXSBLOCK,A24/IMPURE+7  
 00025 51502465 212 RQDVLIST EQU VFD H48/RQDVLIST,A24/IMPURE+6  
 00030 62216525 213 VFD H48/SAVEBBLK,A24/IMPURE+12  
 00033 62216525 214 VFD H48/SAVEDBLK,A24/IMPURE+15  
 00036 62252364 215 VFD H48/SECURITY,A24/IMPURE+11  
 00041 25452422 216 VFD H48/ENDBLOCK,A24/IMPURE+16  
 00044 44622622 217 VFD H48/MSFBLOCK,A24/IMPURE+20  
 00047 23464444 217+001 COMMBLK EQU VFD H48/COMMANDS,A24/IMPURE+25  
 \*\*\*\*=  
 217+003 \*\* THE HOUR ORD CONTAINS A POINTER TO A BLOCK CONTAINING THE SHIFT \*  
 217+004 \*\* SCHEDULE, RATE SCHEDULE, AND THE NUMBER OF SHIFTS. THE FORMAT \*  
 217+005 \*\* OF THIS BLOCK IS \*  
 217+006 \*\*  
 217+007 \*( WORDS 0-6 THE SCHEDULE FOR EACH DAY OF THE WEEKK BEGINNING \*  
 217+008 \*\* SUNDAY. EACH CHARACTER GIVES THE LOWEST HOUR MINUS \*  
 217+009 \*\* ONE FOR THE SHIFT E.G. 07142130 WOULD DEFINE THE F \*  
 217+010 \*\* FOLLOWING SHIFTS 0) 0800 - 1200, 1) 1300 - 1700, 2) \*  
 217+011 \*\* 1800 - 2400, 3) 0000 - 0700 \*  
 217+012 \*\*  
 217+013 \*\* WORDS 7 - 10 THE FACTORS TO BE APPLIED FOR EACH SHIFT. THESE \*  
 217+014 \*\* INTERPETED AS X/8. THE CONSTANT IN WORD 7 IS THE X FOR \*  
 217+015 \*\* FOR SHIFT 0 ETC. \*  
 217+016 \*\*  
 217+017 \*\* WORD 11 THE NUMBER OF SHIFTS - ONE I.E. THE LARGEST VALUE THAT \*  
 217+018 \*\* MAY BE SPECIFIED IS 3 (N CHECK IS MADE IN INITIAL) \*  
 217+019 \*\* THE NUMBER OF SHIFTS MAY BE LESS THAN 4, HIS A MAXIMUM. \*  
 217+020 \*\*  
 \*\*\*\*=  
 00052 30466451 217+022 VFD H48/HOUR,A24/IMPURE+24  
 00043 218 NUMRELOC EQU \*-RELOC-1 END OF THE RELOCATED BLOCKS.  
 219  
 220  
 00055 21232346 221 VFD H48/ACCOUNT,A24/673043 SYSTEM JOB NUMBER  
 00060 64622551 222 VFD H48/USER,H24/OS3 SYSTEM USER CODE  
 00063 23516060 223 VFD H48/CR,A9/1,015/3300  
 00066 24316242 224 VFD H48/DISK,09/000,015/01000  
 00071 24316242 225 VFD H48/DISK,09/000,015/40000  
 00074 43476060 226 VFD H48/LP,09/200,015/36000  
 00077 44636060 227 VFD H48/MT,A9/4,015/10000  
 00102 47244710 228 VFD H48/PDP8,024/54000  
 00105 47434663 229 VFD H48/PLOT,024/27000  
 00110 47644560 230 VFD H48/PUN,024/34000  
 00113 63656060 231 VFD H48/TV,A6/12,A3/0,015/15000  
 00116 63656060 231+001 VFD H48/TV,A6/06,A3/0,015/16000  
 232  
 233  
 234  
 235 \* THE FOLLOWING ARE USED IN BUILDING THE TABLES FOR CONTROLLING \*  
 236 \* THE EXCHANGE OF DATA BETWEEN THE 3300 AND THE PDP8 \*  
 237  
 238  
 239 MACRO , , P  
 240  
 241 P1 BCD IDENT  
 242 P2 MULTI PROGRAMMING FACTOR  
 243 P3 OUTPUT LABEL  
 244 P4 INPUT LABEL  
 245 P5 CONTROL BYTE  
 246 P6 PDP8 MUX CHANNEL  
 247  
 248 NAME JUNK  
 249 VFD H48/\$P(1),03/\$P(2),05/\$P(3),05/\$P(4),05/\$P(5),06/\$P(6)  
 250 EXIT  
 251  
 252 P1 BCD IDENT  
 253 P2 1 IF LAST, 0 IF NOT LAST  
 254 P3 TERMINAL ASSOCIATED WITH DEVICE  
 255 P4 INPUT LABEL

256 P5 CONTROL BYTE  
257 P6 PDP3 MUX CHANNEL  
258  
259 NAME INPUT  
260 VFD H48/\$P(1)  
261 VFD 01/\$P(2),07/\$P(3),05/\$P(4),05/\$P(5),06/\$P(6)  
262 EXIT  
263 END  
264 JUNK PTP,0,3,0,0,1  
265 INPUT HSI,0,60,4,1,2 RADIATION CENTER  
266 INPUT HSI,0,170,3,0,1 PAPER TAPE READER  
267 INPUT HSI,0,57,7,6,14 PHA 01  
268 INPUT HSI,0,56,10,7,15 PHA 02  
269 INPUT HSI,1,170,11,10,0 TEST CHANNEL 01  
270 JUNK HSTT,0,0,0,0,20 VARIABLE SPEED  
271 JUNK HSTT,0,0,0,0,21 PRINT SHOP  
272 JUNK HSTT,0,0,0,0,22 754-3537 300 BAUD  
273 JUNK HSTT,0,0,0,0,23 PHYSICAL PLANT  
274 JUNK HSTT,0,0,0,0,24 CC 211  
275 JUNK HSTT,0,0,0,0,25 754-3538 300 BAUD  
276 JUNK TEK,0,0,0,0,3  
277 JUNK TEK,0,0,0,0,4  
278 JUNK TEK,0,0,0,0,5  
279 JUNK TEK,0,0,0,0,6  
280 JUNK TEK,0,0,0,0,7  
281 JUNK TEK,0,0,0,0,10  
282 JUNK TEK,0,0,0,0,11  
283 JUNK UT,1,13,5,2,12  
284 JUNK UT,1,14,6,4,13  
285  
286  
287 \* #SLSBITS# IS THE VALUE THAT IS IN A WHEN INITIAL EXECUTES  
288 \* A SLS INSTRUCTION. SEE INITIAL FOR THE MEANING OF EACH BIT  
289  
290 VFD H48/SLSBITS,A24/-0

00220 62436222

293 \*  
294 \* LOW RATES ARE IN EFFECT FROM THE FIRST HOUR TO THE \*  
295 \* SECOND HOUR. BY CHANGING THE FIRST HOUR TO 25 AND THE \*  
296 \* SECOND HOUR TO ZERO, LOW RATES CAN BE ELIMINATED. \*  
297 \*  
297+001 \*\* LOWER RATES ARE CURRENTLY FROM 1800 TO 0800 \*\*  
297+002 \*\* NOTE THAT IS ONLY FOR SYSTEMS BEFORE 1/12/74 \*\*  
299 \*

00223 30466451  
301 301+001 VFO H48/HOURS,012/0000,A6/18,A6/08

303  
304  
305 \* #BATCH# CONTROLS THE MAXIMUM NUMBER OF BATCH JOBS  
306 \* THAT CAN BE RUNNING AT THE SAME TIME

00226 22216323  
308 309 VFD H48/BATCH,09/000,A15/10

310  
311 \* #TTY# IS THE VALUE OF THE HIGHEST TTY TERMINAL NUMBER  
312

00231 63637060  
313 314 VFD H48/TTY,09/000,015/170

315  
316 \* IF THE VALUE OF #BDP# IS #ON# THE SYSTEM WILL REQUIRE THE  
317 \* BDP TO BE ON. ANY OTHER VALUE WILL REQUIRE IT TO BE  
318 \* OFF BEFORE THE SYSTEM WILL START  
319

00234 22244760  
320 321 VFD H48/BDP,H24/ON

322  
323 \* #PAGECORE# IS THE AMOUNT OF CORE THE SYSTEM SHOULD HAVE. IF  
324 \* INITIAL DISCOVERS A DIFFERENT AMOUNT A MESSAGE WILL BE  
325 \* PRINTED OUT ON THE CONSOLE  
326

00237 47212725  
327 328 VFO H48/PAGECORE,A24/48 48 PAGES OF CORE (98K)

01000 000  
329 330 ORGR SYMBOLS+WPFB  
331

01000	77777777	331+002	COMMANDS	VFD	A24/-0,A24/-0
		331+003	MACRO	,	P
		331+004	NAME	CMD	
		331+005	LIST	MACROS	
		331+006	BCD	2,\$P(1)	
		331+007	BCD	2,\$P(2)	
		331+008	VFD	09/0,015/\$P(3)	
		331+009	EXIT		
		331+010	NAME	SPEC	
		331+011	LOCAL	COUNT,BITS	
		331+012	EQU	0	
		331+013	EQU	0	
		331+014	ONE		
		331+015	COUNT	REQU	COUNT+1
		331+016		IF	COUNT+3 GT N#P, GOTO TWO
		331+017	BITS	REQU	BITS+2↑(15-\$P(3+COUNT))
		331+018	GOTO		ONE
		331+019	.TWO		
		331+020		LIST	MACROS
		331+021		BCD	2,\$P(1)
		331+022		VFD	024/\$P(2)
		331+023		VFD	A24/BITS
		331+024		VFD	09/0,015/\$P(3)
		331+025		END	
		331+026			
		331+027			
		331+028			
		331+029			
		331+030			
		331+031		CMD	ACCDUMP,BACKUP,70001
		331+032		BCD	2,ACCDUMP
		331+033		BCD	2,BACKUP
		331+034		VFD	09/0,015/70001
		331+035			
		331+036			
		331+037			
		331+038		CMD	JBACKUP,BACKUP,70002
		331+039		BCD	2,JBACKUP
		331+040		BCD	2,BACKUP
		331+041		VFD	09/0,015/70002
		331+042			
		331+043			
		331+044			
		331+045			
		331+046			
		331+047			
		331+048			
		331+049			
		331+050			
		331+051			
		331+052			
		331+053			
		331+054			
		331+055			
		331+056			
		331+057			
		331+058			
		331+059			
		331+060			
		331+061			
		331+062			

ASSEMBLER/VSS V1.0 09/21/74 2143 PAGE 11 INSTALL

01063 00074001

331+024

VFD

09/0,015/74001

02000 D00

331+048

ORGR

COMMANDS+WPFB

331+049

END

TRANSFER

332

NO LINES WITH ERRORS

ADDRESS	00236P	192	38	00004P	42	00010P	55	00024P	59	00030P	133	00153P	137	00157P
BLOCKS	E	00131P	117	30	00000P	127	00146P							
BOOT	X	000003000	202	132	00152P	135	00155P							
BOOTLOC				54	00023P	156	00201P							
BOOTOUT	E	00147P	129	32	00000P	140	00162P							
BOOTOVER	E	000000P	34	31	00000P	95	00070P	111	00106P					
BOOTREAD		00230P	132	40	00006P	44	00012P	68	00037P	121	00135P	184	00232P	
BOOTSHR		00153P	142	37	00003P	131	00151P	158	00203P					
BOOTWRIT		00233P	187	57	00026P	61	00032P	126+3	00145P	134	00154P	139	00161P	
COMMANDS		010000000	331+2	331+50	01064000	126+2	00144P							
COMMBLK		00047000	217+1	126+1	00143P									
CORE		04000	16	39	00005P	41	00007P	56	00025P	58	00027P	120	00134P	
CORE2		100000	17	124	00140P									
D10		00240P	197	67	00036P	72	00042P	81	00053P					
DEVLOOP		00042P	71	83	00055P									
DEVELOPND		00064P	90	90	00064P									
DEVMAX		00077	11	73	00043P	80	00052P	148	00171P					
DEVPPOINT		00051P	79	45	00013P	76	00046P							
ENDLOOP		00033P	62	36	00002P	46	00014P							
EXIT		00237P	195	50	00017P	52	00021P							
IMPURE		00000	19	34	00000P	117	00131P	129	00147P					
INPACK		00015P	48	48	00015P	79	00051P	142	00163P	150	00173P	160	00204P	
LOOP		00015P	47	154	00177P	182	00230P	183	00231P	187	00233P	188	00234P	
MSLBLK		00006	9	64	00034P									
MSLLFBN		00002	8	122	00136P									
NUMRELOC		00043	218	124	00140P									
RELLOC		00011000	206	172	00220P									
RQDVLIST		00025000	212	218	00055000	173	00221P							
SHARE		00205P	161	66	00035P									
SHAREFLG		00206P	162	35	00001P	118	00132P	130	00150P	179	00227P			
SHAREX2		00204P	160	178	00226P									
SYMBOLS		000000000	200	163	00207P	164	00210P							
TRANSFER	X		28	330	00242000	125	00141P							
WC		00015	22	92	00066P									
WHEREIS		00107P	114	115	00131P	104	00077P							
WHERELUN		00117P	115	84	00056P	86	00060P	88	00062P	99	00072P	100	00073P	
WPFB		01000	14	330	00242000	331+50	01064000	41	00007P	58	00027P	70	00041P	
X1		00001	3	136	00156P									
X2		00002	4	39	00005P	41	00007P	56	00025P	58	00027P	67	00036P	
X3		00003	5	75	00045P	79	00051P	107	00102P	120	00134P	125	00141P	
ZREAD		00231P	183	132	00152P	135	00155P	136	00156P	148	00171P	152	00175P	
ZWRITE		00234P	188	173	00221P	174	00222P	175	00223P	176	00224P			